Claims

[c1] An apparatus for extruding a raw material injected via a hopper through a dice consisting of inner and outer blocks to produce a resin tube, comprising:

a first extruding unit having a plurality of first dice for shaping at least one inner conduit installed within a circumference of a given width at a head of a screw case;

first refrigerators consecutively install in the first extruding unit, for cooling the inner conduits from the first extruding unit;

a second extruding unit consecutively installed next to the first refrigerator in the head of the screw case, said second extruding unit having a containing tube for containing the plurality of the inner conduits extruded from the first extruding unit and said second extruding having a second dice for shaping an outer conduits surrounding an outer circumference of the inner conduits; and

a second refrigerator next to the second extruding unit, said second refrigerator having a third dice for shaping a wrinkle at the main wall of the outer conduits extruded through the second dice and said second refrigerator for cooling the outer conduits extruded through the second and third dice.

[c2] The apparatus as claimed in claim 1, further including an activator of a ring shape that is installed freely at a space between the inner and outer blocks of the first dice in order to control the thickness of the main wall of the inner conduit extruded within each of the first dice of the first extruding, and a thickness control means coupled by a screw in at least three directions in an outer side of the outer block, for moving the activator in all directions.

[c3] The apparatus as claimed in claim 1, wherein said dice are positioned at an equal distance within the circumference located within the outer conduits extruded through the second dice.

[c4] The apparatus as claimed in claim 1, further including a standardization die for standardizing an outer dimension of the inner conduits extruded through the first dice.

[c5] The apparatus as claimed in claim 1, wherein said first refrigerator hardens the inner conduits extruded using a coolant through a thermal exchanger using a coolant.

[c6] The apparatus as claimed in claim 1, further including a hoisting means for hoisting the inner and outer conduits from the first and second extruding units next to the second refrigerator.

[c7] The apparatus as claimed in claim 1, further including a guider for guiding the inner conduits from the first refrigerator and the first extruding unit in the second extruding unit.

[c8] The apparatus as claimed in claim 1, said resin tube having a plurality of inner conduits, comprising:

at least one inner conduits collected and positioned at a equal distance within the circumference of a circle of a given width through an adequate extruding process, and

outer conduits of a wrinkle shape formed around the inner conduits by means of an adequate extruding process.